

Title (en)  
METHOD AND APPARATUS FOR CONTROLLING THE TEMPERATURE OF MOLDS, DIES, AND INJECTION BARRELS USING FLUID MEDIA

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DER TEMPERATUR VON FORMWERKZEUGEN, GESENKEN UND  
EINSPRITZZYLINDERN UNTER VERWENDUNG VON FLÜSSIGEN MEDIEN

Title (fr)  
PROCÉDÉ ET APPAREIL DE RÉGULATION DE TEMPÉRATURE DE MOULES, DE MATRICES ET DE CYLINDRES D'INJECTION À L'AIDE  
D'UN MILIEU FLUIDIQUE

Publication  
**EP 2049320 B1 20180425 (EN)**

Application  
**EP 07717608 A 20070213**

Priority  
• US 2007062023 W 20070213  
• US 35289406 A 20060213

Abstract (en)  
[origin: US2006196957A1] Methods and apparatus for controlling the temperature of a mold such as for molding plastics, metal, ceramic, and die-casting. A circulator supporting a molding machine and consisting of a fixed displacement pump being driven by servo stepping motor and speed controlled by standard motor software, provides dynamic, real time flow control for metering of the thermal control fluid to the molding machine with a pre-set and/or adjustable flow rate profile appropriate to the molding machine and process. The pump meters the temperature control fluid to the control loop in precise units of volume, based on selected control inputs that may be based on any one or combination of time, machine cycle status, mold or process temperature, pressure, and flow rate variables, regardless of inlet or outlet loop pressure. It performs positive or negative pressure and various flow behaviors including fixed flow, variable flow, and pulsed flow.

IPC 8 full level  
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